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AMENDMENTS TO THE CLAIMS

Please add Claims 27 and 28.

Please amend Claims 1, 4-13, 14, and 17-26 as follows:

1 1. (currently amended) A method for providing access between a first party and a  
2 second party, said method comprising the steps of:  
3 generating a challenge value ~~and a lock value~~ at said first party;  
4 transmitting said challenge to said second party;  
5 generating a response value using a lock value from at said second party;  
6 wherein said lock value indicates a desired access mode;  
7 transmitting said response value to said first party; and  
8 validating said response value by said first party.

1 2. (original) The method of Claim 1, wherein said first party is a disk drive and said  
2 second party is a host computer.

1 3. (original) The method of Claim 2, wherein said disk drive is locked when not accessed.

1 4. (currently amended) The method of Claim ~~[[3]] 1, wherein said step of generating a~~  
2 ~~said challenge value and said lock value~~ further includes ing:  
3 ~~the step of~~ using 512 bits for said challenge value and using 512 bits for said lock  
4 value.

1 5. (currently amended) The method of Claim ~~[[4]] 1, wherein said step of generating a~~  
2 ~~said challenge value and said lock value~~ further includes ing:  
3 ~~the step of~~ randomly generating each said challenge value.

1 6. (currently amended) The method of Claim ~~[[5]] 1, wherein said step of generating~~  
2 ~~[[a]] said challenge value and said lock value~~ further includes ing:  
3 ~~the step of~~ using a disk drive controller to generate said challenge value.

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1 7. (currently amended) The method of Claim [[6]] 1, wherein said step of generating  
2 [[a]] said response value further includes:  
3 ~~the step of using an exclusive OR (XOR) to combine the said challenge and said lock~~  
4 ~~value[[s]].~~

1 8. (currently amended) The method of Claim [[7]] 1, wherein said step of generating  
2 [[a]] said response value further includes:  
3 ~~the step of using 160 bits for said response value.~~

1 9. (currently amended) The method of Claim [[8]] 1, wherein said step of generating  
2 [[a]] said response value further includes:  
3 ~~the step of using a cryptography circuit to generate said response value.~~

1 10. (currently amended) The method of Claim 9, wherein said step of generating [[a]]  
2 said response value further includes the step of using an algorithm to generate said response  
3 value.

1 11. (currently amended) The method of Claim [[10]] 6, wherein said step of  
2 generating [[a]] said response value further includes:  
3 ~~the step of using a secure hash algorithm to generate said response value.~~

1 12. (currently amended) The method of Claim 11, wherein said step of validating said  
2 response value further includes:  
3 ~~the step of wherein~~ said disk drive controller ~~receivings~~ the challenge and lock  
4 value[[s]] ;  
5 computing a duplicate response value on said disk drive controller by performing a  
6 duplicate said secure hash algorithm[[.]] ; and  
7 comparing ~~the original~~ said response value to the said duplicate said response value.

1 13. (currently amended) The method of Claim 12, wherein said step of validating said  
2 response value further includes:

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3       ~~the step of~~ unlocking the disk drive in accordance with the desired access mode  
4       indicated by the lock value if the response and duplicate response values match.

1       14. (currently amended)       An apparatus for providing access between a first party and a  
2       second party, said apparatus comprising:

3               means for generating a challenge value ~~and a lock value~~ at said first party;  
4               means for transmitting said challenge to said second party;  
5               means for generating a response value using a lock value at said second party;  
6               wherein said lock value indicates a desired access mode;  
7               means for transmitting said response value to said first party; and  
8               means for validating said response value by said first party.

1       15. (original)   The apparatus of Claim 14, wherein said first party is a disk drive and said  
2       second party is a host computer.

1       16. (original)   The apparatus of Claim 15, wherein said disk drive is locked when not  
2       accessed.

1       17. (currently amended)       The apparatus of Claim ~~[[16]]~~ 14, ~~wherein said means for~~  
2       ~~generating a said challenge value and said lock value~~ further includesing;  
3               means for using 512 bits for said challenge value and using 512 bits for said lock  
4       value.

1       18. (currently amended)       The apparatus of Claim ~~[[17]]~~ 14, ~~wherein said means for~~  
2       ~~generating a said challenge value and said lock value~~ further includesing;  
3               means for randomly generating ~~each~~ said challenge value.

1       19. (currently amended)       The apparatus of Claim ~~[[18]]~~ 14, ~~wherein said means for~~  
2       ~~generating a said challenge value and said lock value~~ further includesing;  
3               means for using a disk drive controller to generate said challenge value.

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1 20. (currently amended) The apparatus of Claim [[19]] 14, wherein said means for  
2 generating [[a]] said response value further includes;  
3 means for using an exclusive OR (XOR) for combining the said challenge and said  
4 lock values.

1 21. (currently amended) The apparatus of Claim [[20]] 14, wherein said means for  
2 generating [[a]] said response value further includes;  
3 means for using 160 bits for said response value.

1 22. (currently amended) The apparatus of Claim [[21]] 14, wherein said means for  
2 generating [[a]] said response value further includes;  
3 a cryptography circuit for generating said response value.

1 23. (currently amended) The apparatus of Claim 22, wherein said means for generating  
2 [[a]] said response value further includes an algorithm for generating said response value.

1 24. (currently amended) The apparatus of Claim [[23]] 14, wherein said means for  
2 generating [[a]] said response value further includes;  
3 a secure hash algorithm for generating said response value.

1 25. (currently amended) The apparatus of Claim [[24]] 19, wherein said means for  
2 validating said response value further includes;  
3 ~~a means for wherein~~ said disk drive controller receives challenge and lock  
4 value[[s,]] ;  
5 means for computing a duplicate response value on said disk drive controller by  
6 performing a duplicate said secure hash algorithm[[,]] ; and  
7 means for comparing ~~the original~~ said response value to the said duplicate said  
8 response value.

1 26. (currently amended) The apparatus of Claim [[25]] 15, wherein said means for  
2 validating said response value further includes;

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3 means for unlocking the disk drive in accordance with the desired access mode  
4 indicated by the lock value if the response and duplicate response values match.

1 27. (new) The apparatus of Claim 15, wherein said means for validating said response  
2 value further includes:

3 means for unlocking the disk drive in accordance with the desired access mode  
4 indicated by the lock value if the response value is valid.

1 28. (new) The method of Claim 1, wherein said step of validating said response value  
2 further includes:

3 unlocking the disk drive in accordance with the desired access mode indicated by the  
4 lock value if the response value is valid.

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